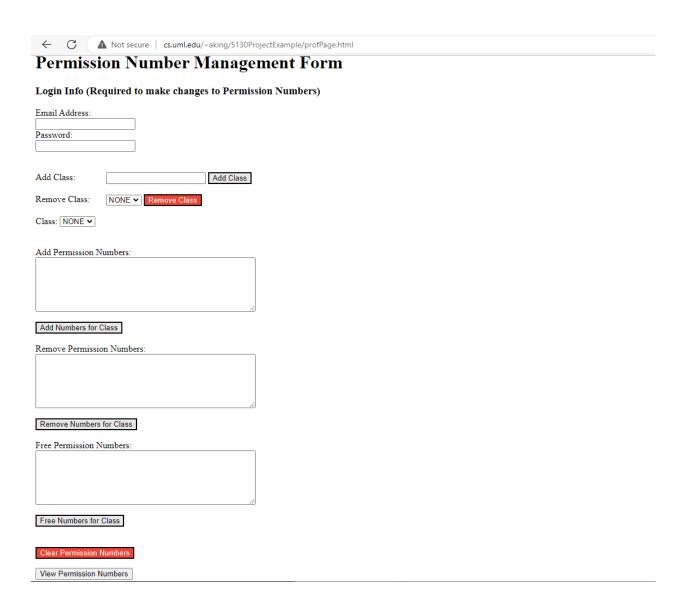# User Manual

Important Note

This user manual assumes you have already installed the source files, set up proper permissions and created an account. If you have not done so, please refer to the install guide.

This guide will be split into two sections, a professor operations and student operations. Professor operations will include setting login info, adding a class, removing a class, adding permission numbers for a class, removing permission numbers for a class, freeing permission numbers for a class, clearing permission numbers for a class and viewing status of permission numbers for a class. Student operations will include requesting a permission number, checking for an already assigned number using an email address and checking for an already assigned number using a student ID.

Professor Operations

To do professor operations, you must have the account login info created during the steps of the install guide and navigate to the professor page. The professor page can be reached by going to the home page and clicking the button specifying you are a professor. This is shown in the install guide if you've forgotten.

Here is the layout of the professor page upon first reaching it

This section of the user manual will roughly show the operations that can be done on the professor page in the order they are shown in the page, with the exception of viewing the permission numbers which will be done a bit earlier.

Entering Login Info

At the top of the professor page is a box for an email and password. Entering login info is simply entering the email and password for your account (see install guide to see how account info comes to be). You are not required to "submit" the login info. Simply make sure it is entered into the email and password boxes before attempting any other actions on the professor page. Throughout this guide I will be using the email "me@me.com" and password "password". Here is what it looks like after I've entered my login info into the page
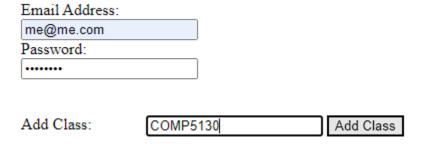
Login Info (Required to make changes to Permission Numbers)

Email Address:

me@me.com

Password:

••••••••

Note that if you attempt any actions before entering your login info, the action will fail, telling you you must login. For example, with nothing entered if I try to create a class I will see

Email Address:

Password:

Add Class: [   ] Add Class

Please provide your login email at the top of the page!

There are also slight variations of this for if you have provided email or password but not the other. Additionally, if you have entered my login info incorrectly, you will get something like

Email Address:

bad

Password:

•••

Add Class: [   ] Add Class

Login failed. Incorrect email or password. Please enter correct email and password at top of page to make changes
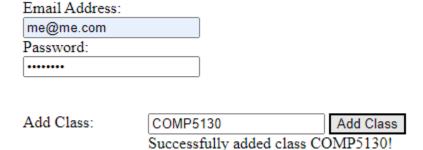
All further sections in this user guide will assume you have entered in your email and password correctly at the top of the page.
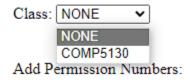
Adding a Class

Adding a class simply consists of entering a class name into the text box labeled "Add Class" and clicking the "Add Class" button. The expectation for what is put in the textbox is the name of the class. For example, if I want to add a class called "COMP5130" I would enter like so

Email Address:
me@me.com
Password:
••••••••

Add Class: COMP5130   Add Class

And then click the "Add Class" button which will add the class and print a message saying it has done so

Email Address:
me@me.com
Password:
••••••••

Add Class: COMP5130   Add Class
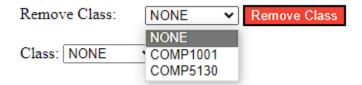Successfully added class COMP5130!

Once you have added a class, you should be able to see it in the dropdown labeled "Class" a bit further down the page (or in the one labeled "Remove Class" as we will discuss in the next section.

Class: NONE
NONE
COMP5130
Add Permission Numbers:

Removing a Class

Removing a class is done by simply selecting a class out of the drop down and then clicking the "Remove Class" button. For example here, I have added another class COMP1001

Remove Class: NONE ▼ **Remove Class**
NONE
Class: NONE · COMP1001
COMP5130

Once you've selected the clas it should appear in the drop down box (instead of "NONE")

Remove Class: COMP1001 ▼ **Remove Class**

Now just click the "Remove Class" button to remove the class. A success message should be printed if the class was removed properly.

Remove Class: NONE ▼ **Remove Class**
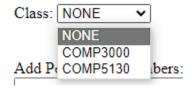Successfully removed class COMP1001!

Note that trying clicking the button without selecting a class will cause the action to fail

Remove Class: NONE ▼ **Remove Class**

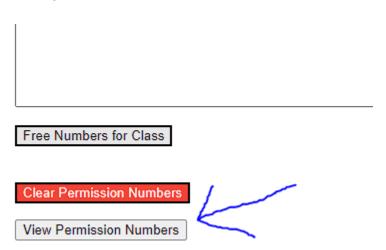'NONE' is not a valid class!

Viewing Permission Numbers

Viewing permission numbers for a class is done by selecting a class in the drop down labeled "Class" (NOTE: NOT the one labeled "Remove Class") and clicking the "View Permission Numbers" button at the bottom of the page. For this example I've set up a class called COMP3000 and set up 3 permission numbers, 1 of which has been reserved by a student. How to add permission numbers and how students can reserve them will be covered later in the guide. Start with selecting the class in the dropdown.

Class: NONE ▼
NONE
COMP3000
Add Pe COMP5130 bers:

In this case I selected COMP3000

Class: [COMP3000 ⌄]

Once you have done this, simply click the "View Permission Numbers" button at the bottom of the page.

[Free Numbers for Class]

[Clear Permission Numbers]

[View Permission Numbers]

This will generate a table under the button that lists all the numbers for the class, if they have been reserved, and if they have been reserver, who has reserved them. For my example clas I saw

[View Permission Numbers]

Number	Taken	First Name	Last Name	Student ID	Email
1234567	True	Example	Student	12345678	example@student.uml.edu
5432564	False	N/A	N/A	N/A	N/A
8544547	False	N/A	N/A	N/A	N/A

You can see the first permission number has been reserved by the student "Example Student" and their email and student ID are listed in the table. The other two numbers are still available as shown by the "Taken" column saying "False".

Adding Permission Numbers

To add permission numbers for a class, start by selecting the class you want to add numbers for from the drop down labeled "Class". Some details on how to do this are present in the "Viewing Permission Numbers" section of this guide. After that, copy all of your permission numbers into the text box labeled "Add Permission Numbers". The program expects these numbers to be newline separated. For example, if I wanted to add the numbers 3462643, 7425643, 2365426 to the class COMP2001, it would look like

Class: [COMP2001 ▼]

Add Permission Numbers:

```
3462643
7425643
2365426
```

[Add Numbers for Class]

I would then click the "Add Numbers for Class" button. The button will print out some details on what it has done. In this example, since COMP2001 had no numbers yet, all numbers are added.

Add Permission Numbers:

```
3462643
7425643
2365426
```

[Add Numbers for Class]
Successfully added new permission numbers!

Permission numbers added to COMP2001:
3462643
7425643
2365426

There are 2 possible outcomes for each permission number when trying to add them to the class. Either the number will be added (as all three numbers were in the example above) or the program will inform you the number already existed for the class if it was added previously. Here's an example where I provide one number that is new and one number that was already added.

Add Permission Numbers:

```
3462643
9863758
```

Add Numbers for Class

Successfully added new permission numbers!

Permission numbers added to COMP2001:
9863758

Permission numbers that already existed for COMP2001:
3462643

Note that when permission numbers are reported as already existing, it means the program took no action on those numbers. Any already existing number that was reserved by a student and then passed to the add permission numbers operation will still be reserved by the student.

Once you have added the numbers you can check that they have been added by viewing them (see the "Viewing Permission Numbers" section). If they are new, they will likely not be taken. In our running example here I saw

View Permission Numbers

Number	Taken	First Name	Last Name	Student ID	Email
3462643	False	N/A	N/A	N/A	N/A
7425643	False	N/A	N/A	N/A	N/A
2365426	False	N/A	N/A	N/A	N/A
9863758	False	N/A	N/A	N/A	N/A

Removing Permission Numbers

Removing permission numbers follows roughly the same format as adding permission numbers (see "Adding Permission Numbers" section of this guide). You select your class, enter the numbers you'd like to remove in a newline separated format into the text box labeled "Remove

Permission Numbers" and click the "Remove Numbers for Class" button. Continuing with the example from the "Adding Permission Numbers" section, class COMP2001 had permission numbers 3462643, 7425643, 2365426 and 9863758. Let's assume I want to remove 7425643 and 2365426. I would enter them into the remove numbers text box as so

Remove Permission Numbers:

```
7425643
2365426
```

Remove Numbers for Class

And click the "Remove Numbers for Class" button. This will print out a message about what has occurred.

Remove Numbers for Class

Successfully removed permission numbers!

Permission numbers removed from COMP2001:
7425643
2365426

Similar to adding permission numbers, there are 2 actions that can happen with each number. Either the number will be removed or it will report that the number was not there to begin with. For example, COMP2001 now only has numbers 3462643 and 9863758. If I choose to remove 3462643 and also erroneously try to remove a nonexistent number 7654321 I will get

Remove Permission Numbers:

```
3462643
7654321
```

[Remove Numbers for Class]

Successfully removed permission numbers!

Permission numbers removed from COMP2001:
3462643

Permission numbers that already did not exist for COMP2001:
7654321

Freeing Permission Numbers

Freeing permission numbers works similar to adding and removing permission numbers, where you select a class from the dropdown labeled "Class", enter the numbers to free into the "Free Permission Numbers" labeled textbox in newline separated format, and click the "Free Numbers for Class" button. In the example for this section, we have class COMP2001. It has 5 permission numbers and 4 of them are currently reserved.

[View Permission Numbers]

Number	Taken	First Name	Last Name	Student ID	Email
9234545	True	Example	Student	12345678	example@student.uml.edu
2353465	True	Other	Student	87654321	other@student.uml.edu
3455645	True	Third	Student	45634564	Third@student.uml.edu
7563456	True	Fourth	Student	34664575	Fourth@student.uml.edu
2355645	False	N/A	N/A	N/A	N/A

Let's say that "Other Student" and "Third Student" have not used their number for some time and you would like to make the number available again. You would select the class in the drop down and enter into the textbox

Free Permission Numbers:

```
2353465
3455645
```

Free Numbers for Class

And then click the "Free Numbers for Class" button. A message will be printed saying what happened.

Free Permission Numbers:

```
2353465
3455645
```

Free Numbers for Class
Successfully freed permission numbers!

Permission numbers freed for class COMP2001:
2353465
3455645

And those numbers will no longer be marked as taken.

View Permission Numbers

Number	Taken	First Name	Last Name	Student ID	Email
9234545	True	Example	Student	12345678	example@student.uml.edu
2353465	False	N/A	N/A	N/A	N/A
3455645	False	N/A	N/A	N/A	N/A
7563456	True	Fourth	Student	34664575	Fourth@student.uml.edu
2355645	False	N/A	N/A	N/A	N/A

There are three possible outcomes the program can report when submitting a number to be freed. Either it will say it freed the number as it did for both numbers in the example above, it will say that number was already free, or it will say that number did not exist. For example, here I

will free "Fourth Student"'s number, the second number which is already free, and a nonexistent number 1234567.

Free Permission Numbers:

```
7563456
2353465
1234567
```

Free Numbers for Class

Successfully freed permission numbers!

Permission numbers freed for class COMP2001:
7563456

Permission numbers that were already free for class COMP2001:
2353465

Permission numbers that did not exist for class COMP2001:
1234567

And you can see the proper outcome was reported for each of the three numbers.

Clear Permission Numbers

Clearing permission numbers is one of the simpler operations. All you have to do to clear permission numbers is select the class you want to clear number for from the "Class" dropdown and click the "Clear Permission Numbers" button, near the bottom of the page directly above the "View Permission Numbers" button.

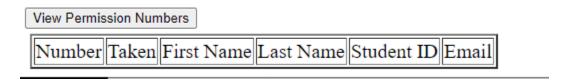For example, if I wanted to remove all numbers for COMP2001,

Class: COMP2001 ⌄

Add Permission Numbers:

Add Numbers for Class

Remove Permission Numbers:

Remove Numbers for Class

Free Permission Numbers:

Free Numbers for Class

Clear Permission Numbers

You can see COMP2001 is selected in the "Class" dropdown. Next all I have to do is click the "Clear Permission Numbers" button. A success message will be printed beneath the button.

Clear Permission Numbers
Successfully removed all numbers for class COMP2001!

After you have cleared the numbers for a class, the class will no longer have any permission numbers associated with it. Viewing the permission numbers for the class will display an empty table.

Number	Taken	First Name	Last Name	Student ID	Email

Student Operations

The student page is accessed exactly like the professor page, except from the home page, hit the button specifying you are a student, rather than a professor (see installation guide for info about home page). The student page will look like

Student Permission Number Request Form

Request a number

Class: [NONE ▾]

First Name: [_____]
Last Name: [_____]

Student Email: [_____]
Student ID: [_____]

[Get Permission Number]

Check if you have assigned number using email address

Class: [NONE ▾]

Student Email: [_____]

[Check For Permission Number by Email]

Check if you have assigned number using student ID

Class: [NONE ▾]

Student ID: [_____]

[Check For Permission Number by Student ID]

This section of the user manual will go through the operations on the student page from top to bottom, starting with reserving numbers and then continuing to the two different ways to check if you have a number reserved.

Requesting a Permission Number

To request a permission number, you must first select a class from the "Class" dropdown in the "Request a Number" section of the page (note there are three dropdowns labeled "Class" so make sure you pick the one from the "Request a Number" section).

Request a number

Class: NONE

NONE
First N COMP2001
Last N COMP3000
COMP5130
COMP7000

Student

Student ID:

Get Permission Number

Here I have selected class COMP7000

Request a number

Class: COMP7000

First Name:
Last Name:

Student Email:
Student ID:

Get Permission Number

Once you have selected a class, simply fill out the text boxes with your information. This include your first name, last name, student email and student ID in the boxes labeled as such. For example, with a student name "Example Student" who has email "example_student@student.uml.edu" and student ID 12345678 you would enter
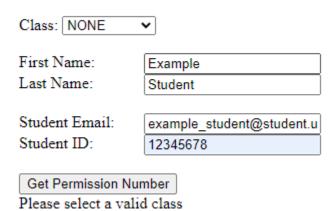
Class: [COMP7000 ▾]

First Name: | Example |
Last Name: | Student |

Student Email: | example_student@student.u |
Student ID: | 12345678 |

[Get Permission Number]

And then click the "Get Permission Number" button. If a number is available the program will share the number you have been assigned with you.

Class: [COMP7000 ▾]

First Name: | Example |
Last Name: | Student |

Student Email: | example_student@student.u |
Student ID: | 12345678 |

[Get Permission Number]

You have been assigned permission number 385872 for class COMP7000. Please use it promptly or it may be given to another student.

In this example, "Example Student" was given number 385872.

If invalid formatted input or blank input is provided in any of the required four text boxes when requesting a number, the program will let you know. For example with all blank input

First Name: | |
Last Name: | |

Student Email: | |
Student ID: | |

[Get Permission Number]
Please input a valid first name
Please input a valid last name
Please input a valid email
Please input a valid ID

And with only some input missing

Class: [COMP7000 ▾]

First Name: [Example   ]
Last Name: [Student   ]

Student Email: [example_student@student.u]
Student ID: [   ]

[Get Permission Number]
Please input a valid ID

It will also tell you if you forgot to select a valid class.

Request a number

Class: [NONE   ▾]

First Name: [Example   ]
Last Name: [Student   ]

Student Email: [example_student@student.u]
Student ID: [12345678   ]

[Get Permission Number]
Please select a valid class

If no numbers are available for the class you have requested a number from, the program will let you know.

Request a number

Class: [COMP7000 ▼]

First Name: [Overflow]
Last Name: [Student]

Student Email: [no_number@student.uml.ed]
Student ID: [43256746]

[Get Permission Number]

All permission numbers for class COMP7000 already taken!

And if you try to request a number when you already have one, the program will simply tell you the number you have already been assigned.

Request a number

Class: [COMP7000 ▼]

First Name: [Example]
Last Name: [Student]

Student Email: [example_student@student.u]
Student ID: [12345678]

[Get Permission Number]

Student with ID 12345678 already assigned permission number 385872 for class COMP7000. Please use it promptly or it may be given to another student.
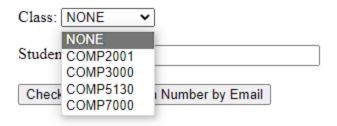
Checking if you have a Permission Number

In case students have forgotten their number and wish to check without having to enter in all of their information again, the student page allows students to check for their numbers using only one piece of information: either their student email or student ID.

Checking for Number by Email

To check for an assigned permission number by email, simply select a class from the class dropdown within the "Check if you have assigned number using email address" section (not, there are three Class dropdowns, so make sure you select from the one in the correct section).

Check if you have assigned number using email address

Class: NONE ⌄

     NONE
Studen COMP2001
     COMP3000
Chec COMP5130 Number by Email
     COMP7000

Here I have selected class COMP7000

Check if you have assigned number using email address

Class: COMP7000 ⌄

Student Email: [   ]

[Check For Permission Number by Email]

Once you have a class selected, enter your email into the text box labeled "Student Email".
Here I will use "example_student@student.uml.edu" from the example in the "Requesting a
Permission Number" section.

Check if you have assigned number using email address

Class: COMP7000 ⌄

Student Email: [example_student@student.u]

[Check For Permission Number by Email]

Now click the "Check For Permission Number by Email" button, which will cause the program to
output whether or not you have a permission number. For example, since there is a permission
number assigned to someone with the email "example_student@student.uml.edu" for
COMP7000, I get

Check if you have assigned number using email address

Class: [COMP7000 ▾]

Student Email: [example_student@student.u]

[Check For Permission Number by Email]

Student with email **example_student@student.uml.edu** is currently assigned permission number **385872** for class **COMP7000**. Please use it promptly or it may be given to another student.

If I check the same with an email with no number assigned I get

Check if you have assigned number using email address

Class: [COMP7000 ▾]

Student Email: [no_number@student.uml.ed]

[Check For Permission Number by Email]

No assigned permission number found for email **no_number@student.uml.edu** for class **COMP7000**. If you need a permission number please go back and use the request form.

Checking if you have a Permission Number by Student ID

Most of how you check for a permission number by student ID is identical to how you check for a number using an email. For the majority of how this works, please read the "Checking if you have a Permission Number by Email" section. The only differences is in this case you use the "Class" dropdown in the "Check if you have assigned number using student ID" section and enter your student ID into the corresponding text box rather than your email. Using the example from the "Requesting a Permission Number" section, if I want to check if there is a number assigned for studentID 12345678 for class COMP7000 I would enter

Check if you have assigned number using student ID

Class: [COMP7000 ▾]

Student ID: [12345678]

[Check For Permission Number by Student ID]

And click the "Check For Permission Number by Student ID" button. Similar to checking with email, this will output whether or not there is a number for this ID. Something like

Check if you have assigned number using student ID

Class: [COMP7000 ▾]

Student ID: [12345678]

[Check For Permission Number by Student ID]

Student with ID **12345678** is currently assigned permission number **385872** for class **COMP7000**. Please use it promptly or it may be given to another student.

If there is a number and something like

Check if you have assigned number using student ID

Class: [COMP7000 ▾]

Student ID: [34653753]

[Check For Permission Number by Student ID]

No assigned permission number found for student ID **34653753** for class **COMP7000**. If you need a permission number please go back and use the request form.

If there is not.

Conclusion

This concludes the user manual for the Permission++ program. All operations possible to complete using Permission++ are covered between this user manual and the installation guide.